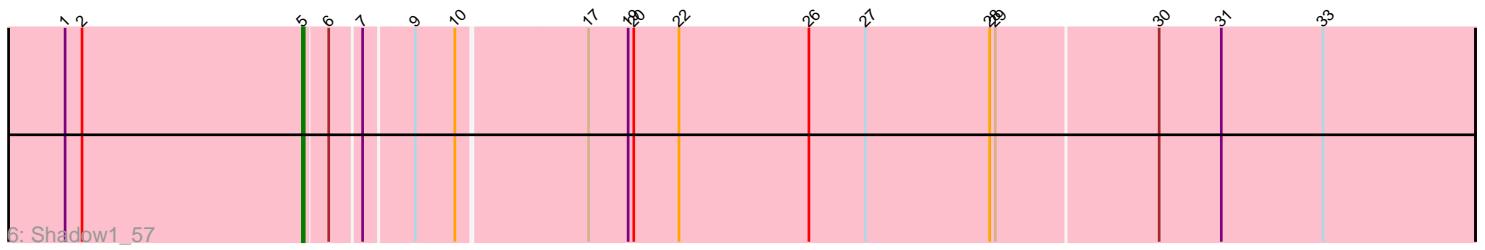
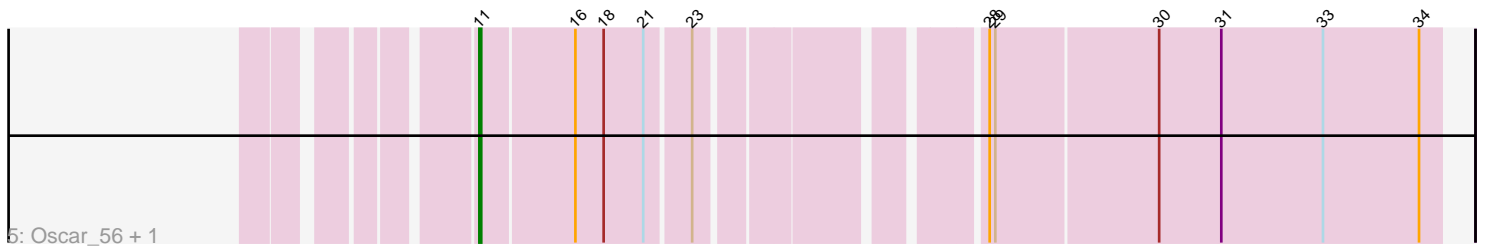
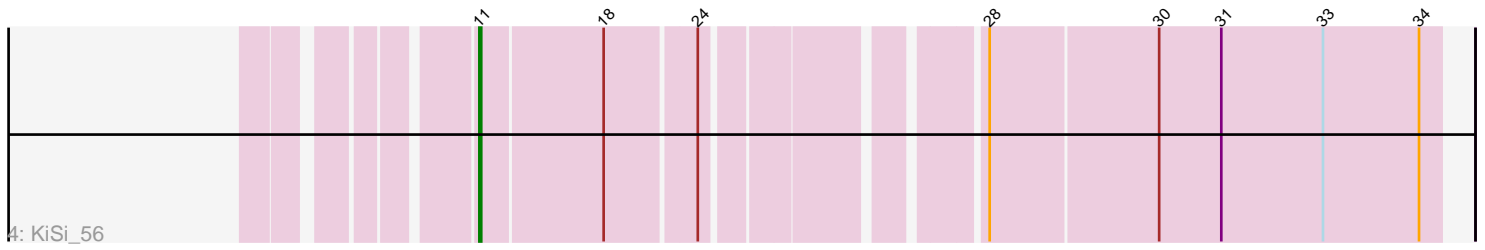
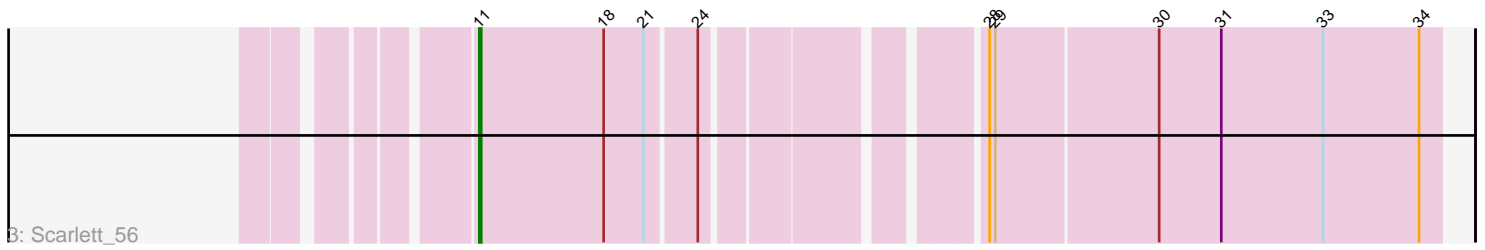
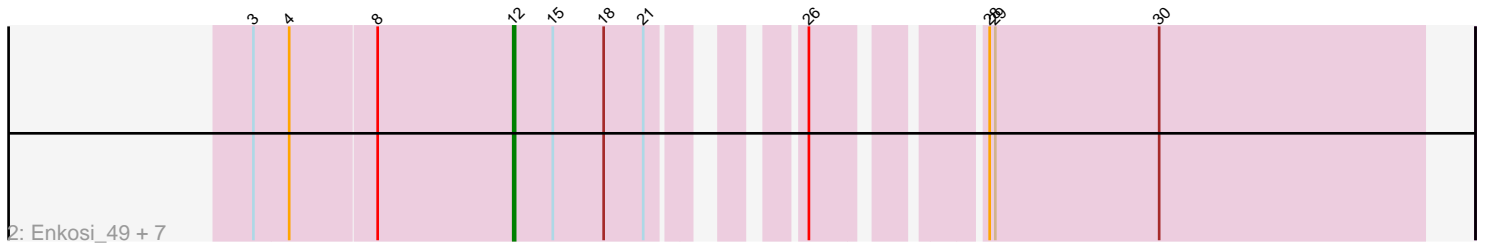
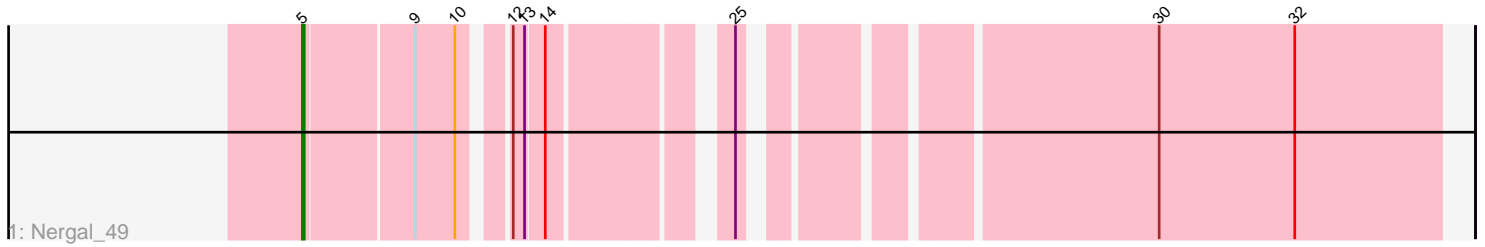


# Pham 170421



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 170421 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170421 has 14 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Nergal\_49
- Track 2 : Enkosi\_49, SgtBeansprout\_47, LilPharaoh\_47, Nikao\_50, Binglebops\_47, Mdavu\_48, Amelie\_47, Nutello\_47
- Track 3 : Scarlett\_56
- Track 4 : KiSi\_56
- Track 5 : Oscar\_56, LeMond\_56
- Track 6 : Shadow1\_57

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 12, it was called in 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelie\_47, Binglebops\_47, Enkosi\_49, LilPharaoh\_47, Mdavu\_48, Nikao\_50, Nutello\_47, SgtBeansprout\_47,

Genes that have the "Most Annotated" start but do not call it:

- Nergal\_49,

Genes that do not have the "Most Annotated" start:

- KiSi\_56, LeMond\_56, Oscar\_56, Scarlett\_56, Shadow1\_57,

### **Summary by start number:**

Start 5:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal\_49 (AG), Shadow1\_57 (K6),

Start 11:

- Found in 4 of 14 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 4 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: KiSi\_56 (K1), LeMond\_56 (K1), Oscar\_56 (K1), Scarlett\_56 (K1),

Start 12:

- Found in 9 of 14 ( 64.3% ) of genes in pham
- Manual Annotations of this start: 8 of 14
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Amelie\_47 (K1), Binglebops\_47 (K1), Enkosi\_49 (K1), LilPharaoh\_47 (K1), Mdavu\_48 (K1), Nikao\_50 (K1), Nutello\_47 (K1), SgtBeansprout\_47 (K1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: K1, K6, AG,

Info for manual annotations of cluster AG:

- Start number 5 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:

- Start number 11 was manually annotated 4 times for cluster K1.
- Start number 12 was manually annotated 8 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 5 was manually annotated 1 time for cluster K6.

### **Gene Information:**

Gene: Amelie\_47 Start: 37306, Stop: 37731, Start Num: 12

Candidate Starts for Amelie\_47:

(3, 37171), (4, 37189), (8, 37234), (Start: 12 @37306 has 8 MA's), (15, 37327), (18, 37354), (21, 37375), (26, 37429), (28, 37501), (29, 37504), (30, 37591),

Gene: Binglebops\_47 Start: 37306, Stop: 37731, Start Num: 12

Candidate Starts for Binglebops\_47:

(3, 37171), (4, 37189), (8, 37234), (Start: 12 @37306 has 8 MA's), (15, 37327), (18, 37354), (21, 37375), (26, 37429), (28, 37501), (29, 37504), (30, 37591),

Gene: Enkosi\_49 Start: 39919, Stop: 40344, Start Num: 12

Candidate Starts for Enkosi\_49:

(3, 39784), (4, 39802), (8, 39847), (Start: 12 @39919 has 8 MA's), (15, 39940), (18, 39967), (21, 39988), (26, 40042), (28, 40114), (29, 40117), (30, 40204),

Gene: KiSi\_56 Start: 38953, Stop: 39420, Start Num: 11

Candidate Starts for KiSi\_56:

(Start: 11 @38953 has 4 MA's), (18, 39016), (24, 39061), (28, 39184), (30, 39271), (31, 39304), (33, 39358), (34, 39409),

Gene: LeMond\_56 Start: 38937, Stop: 39401, Start Num: 11

Candidate Starts for LeMond\_56:

(Start: 11 @38937 has 4 MA's), (16, 38982), (18, 38997), (21, 39018), (23, 39039), (28, 39165), (29, 39168), (30, 39252), (31, 39285), (33, 39339), (34, 39390),

Gene: LilPharaoh\_47 Start: 37034, Stop: 37459, Start Num: 12

Candidate Starts for LilPharaoh\_47:

(3, 36899), (4, 36917), (8, 36962), (Start: 12 @37034 has 8 MA's), (15, 37055), (18, 37082), (21, 37103), (26, 37157), (28, 37229), (29, 37232), (30, 37319),

Gene: Mdavu\_48 Start: 37295, Stop: 37720, Start Num: 12

Candidate Starts for Mdavu\_48:

(3, 37160), (4, 37178), (8, 37223), (Start: 12 @37295 has 8 MA's), (15, 37316), (18, 37343), (21, 37364), (26, 37418), (28, 37490), (29, 37493), (30, 37580),

Gene: Nergal\_49 Start: 36269, Stop: 36790, Start Num: 5

Candidate Starts for Nergal\_49:

(Start: 5 @36269 has 2 MA's), (9, 36323), (10, 36344), (Start: 12 @36362 has 8 MA's), (13, 36368), (14, 36377), (25, 36455), (30, 36641), (32, 36713),

Gene: Nikao\_50 Start: 39919, Stop: 40344, Start Num: 12

Candidate Starts for Nikao\_50:

(3, 39784), (4, 39802), (8, 39847), (Start: 12 @39919 has 8 MA's), (15, 39940), (18, 39967), (21, 39988), (26, 40042), (28, 40114), (29, 40117), (30, 40204),

Gene: Nutello\_47 Start: 37306, Stop: 37731, Start Num: 12

Candidate Starts for Nutello\_47:

(3, 37171), (4, 37189), (8, 37234), (Start: 12 @37306 has 8 MA's), (15, 37327), (18, 37354), (21, 37375), (26, 37429), (28, 37501), (29, 37504), (30, 37591),

Gene: Oscar\_56 Start: 38839, Stop: 39306, Start Num: 11

Candidate Starts for Oscar\_56:

(Start: 11 @38839 has 4 MA's), (16, 38887), (18, 38902), (21, 38923), (23, 38944), (28, 39070), (29, 39073), (30, 39157), (31, 39190), (33, 39244), (34, 39295),

Gene: Scarlett\_56 Start: 38831, Stop: 39301, Start Num: 11

Candidate Starts for Scarlett\_56:

(Start: 11 @38831 has 4 MA's), (18, 38897), (21, 38918), (24, 38942), (28, 39065), (29, 39068), (30, 39152), (31, 39185), (33, 39239), (34, 39290),

Gene: SgtBeansprout\_47 Start: 37306, Stop: 37731, Start Num: 12

Candidate Starts for SgtBeansprout\_47:

(3, 37171), (4, 37189), (8, 37234), (Start: 12 @37306 has 8 MA's), (15, 37327), (18, 37354), (21, 37375), (26, 37429), (28, 37501), (29, 37504), (30, 37591),

Gene: Shadow1\_57 Start: 38538, Stop: 39143, Start Num: 5

Candidate Starts for Shadow1\_57:

(1, 38412), (2, 38421), (Start: 5 @38538 has 2 MA's), (6, 38550), (7, 38565), (9, 38589), (10, 38610), (17, 38676), (19, 38697), (20, 38700), (22, 38724), (26, 38793), (27, 38823), (28, 38889), (29, 38892), (30, 38976), (31, 39009), (33, 39063),